

AMENDMENTS TO THE CLAIMS

Claims 1-18 (Cancelled)

19. (New) A process for producing anatase titania or a composite oxide containing the anatase titania which comprises forming a gel containing a metal oxide and an organic polymer from a solution containing a hydrolyzable titanium compound and the organic polymer, and subsequently reacting this gel with water at a temperature of 100°C or below to produce the anatase titania or the composite oxide containing the anatase titania, wherein the ratio of the organic polymer to the composite oxide is from 0.1 to 10 in weight ratio.

20. (New) The process according to claim 19 wherein the organic polymer is a water-soluble organic polymer.

21. (New) The process according to claim 19 wherein the hydrolyzable titanium compound is an alkoxide of titanium.

22. (New) The process according to claim 19 wherein reaction of the gel with water is carried out with hot water.

23. (New) The process according to claim 22 wherein a functional molecule or a metal ion is dissolved in the hot water, thereby to dope the anatase titania or the composite oxide containing the anatase titania with the functional molecule or metallic particles.

24. (New) The process according to claim 19 wherein a gel film is formed on a substrate and then is allowed to react with water to produce a film.

25. (New) An anatase titania or the composite oxide containing the anatase titania obtained according to the process of claim 19.

26. (New) A transparent film of the composite oxide and a substrate having the transparent film of the composite oxide according to claim 25, formed thereon.

27. (New) A process for producing anatase titania or a composite oxide containing anatase titania which consists essentially of forming a gel containing a metal oxide and an organic polymer from a solution containing a hydrolyzable titanium compound and the organic polymer, and subsequently reacting this gel to react with water at a temperature of 100°C or below to produce the anatase titania or the composite oxide containing the anatase titania, wherein the ratio of the organic polymer to the composite oxide is from 0.1 to 10 in weight ratio.

28. (New) A process according to claim 19 wherein anatase titania is produced.

29. (New) The process according to claim 19 wherein a composite containing anatase titania is produced.

30. (New) The process according to claim 27 wherein anatase titania is produced.

31. (New) The process according to claim 27 wherein a composite oxide containing anatase titania is produced.

32. (New) The process according to claim 20 wherein the water soluble polymer is a polyalkylether.

33. (New) The process according to claim 27 wherein the organic polymer is a water soluble polymer.

34. (New) The process according to claim 33 wherein the water soluble polymer is a polyalkylether.